

***Index***

---

**Index**

- ADM Antenna 3-14
- Analog Receiver 4-2
- Analog Signal 2-4
- Antenna
  - Specifications 3-2
- Antenna Features 3-2
  - Antenna G/T 3-5
  - Beamwidth 3-3
  - Efficiency 3-3
  - Focal Point 3-2
  - Gain 3-4
  - Noise 3-4
- Antenna Mount 3-5
  - Az/El Mount 3-5
  - Feedhorn 3-5
  - Fixed Mount 3-5
  - Frequency Reuse 3-7
  - Low-Noise Block Downconverter (LNB) 3-8
  - Polar Mount 3-5
  - Polarity Controller 3-7
  - Signal Polarization 3-6
- Antenna Types 3-8
  - ADM 3-14
  - Inter-Continental 3-14
  - IRTE 3-10
  - Paraclipse 3-11
  - Telesat 3-12
  - Vertex 3-13
- Audio Amplifier Selection Guidelines 6-3
- Audio Signal 4-2
- Broadcast Signal Spectra 4-3
  - National Television Standards Committee (NTSC) 4-3
  - phase alteration by line (PAL) 4-3
- Broadcast Network, see Satellite Broadcast Network
- Broadcast Operation 8-2
- Bureau of Broadcasting's Engineering Telecommunications Directorate (B/EBM) 2-6, 9-2
- Cassegrain focus 3-3
- C-band 4-2

***Index***

---

**CENTRAL DYNAMICS 805 Video Distribution Amplifier 7-9**

Features 7-9

Frequency Response 7-11

Gain 7-10

Operations 7-10

Phase 7-11

Specifications 7-9

**CENTRAL DYNAMICS 821 Audio Distribution Amplifier 7-6**

Features 7-6

Operations 7-7

Specifications 7-6

**COMSTREAM ABR200 Audio Broadcast Receiver 4-9**

Command Descriptions 4-24

Command Error Codes 4-21

Command Groups 4-22

Fault Conditions 4-48

Features 4-9

Front Panel Indicator 4-11

Password Protection 4-22

Rear Panel Connections 4-13

Receiver Control 4-20

Troubleshooting 4-48

Digital Receiver 4-3

Digital Signal 2-4

Glossary Appendix D

**HARVARD ELITE SDD-1 Interactive Audio Package 8-17**

Broadcasting Coordination 8-24

Cable Connections 8-18

Components 8-17

Hook-up Procedure, telephone permanently connected at handset 8-19

Hook-up Procedure, telephone unplugs at handset 8-18

Interactive Programming Preparation 8-22

Operation, VCR Recording 8-20

Operation, non-VCR Recording 8-21

Programming Coordination 8-24

Rear Panel 8-18

Side Panel 8-17

Tests 8-22

VCR Recording 8-20

VCR Connections 8-21

**HOUSTON Tracker III Antenna Positioner 5-50**

***Index***

---

IRTE Antenna 3-10

Interactive Programming 8-3

Control Room/Studio Arrangements 8-3

HARVARD ELITE SDD-1 Interactive Audio Package 8-17

SONY Porta-Pac Interactive Audio Package 8-6

and WORLDNET 2-2

Inter-Continental Antenna 3-14

Ku-band 4-2

L-band 4-2

Low Noise Block Downconverter 3-9, see also Antenna Mount

Maintenance Procedures 9-2

Determining Peak Solar Outages 9-7

Monthly Checklist 9-3

New Satellites, positioning and recording 9-5

Satellite Log Sheet, blank 9-11

Satellite Log Sheet, example 9-6

Severe Weather Checklist 9-4

Six-Month Checklist 9-3

Solar Outage, day and time ranges 9-10

Solar Outage, peak day 9-8

Solar Outage, peak time 9-9

MANHATTAN SP 250 Satellite Positioner 5-8

Changing Antenna Position of a Satellite Number 5-29

Clearing Memory 5-31

Configurations 5-10

East-West Limits, Adjusting 5-16

Features 5-8

Front Panel 5-11

Normal Mode 5-27

Operational Modes 5-10

Polarizer Circuitry 5-9

Recovering Satellite Numbers After "Err" Message 5-31

Recovering Satellite Numbers After Power Failure 5-30

Remote Control Handset 5-12

Satellite Numbers 5-16, 5-17

Setting up Satellite Numbers and Polarization Values (positioners with polarizer control)  
5-17

Setting up Satellite Numbers (positioners without polarizer control) 5-24

Standby Mode 5-15

System Connections 5-9

Warning Messages 5-31

***Index***

---

- MASPRO System Receiver 4-119
- Merrimac MS-1 Satellite Tracking Controller 5-50
- Monitor Selection Guidelines 6-3
- Monitoring Equipment 7-2
  - Audio Distribution Amplifier 7-2
  - CENTRAL DYNAMICS 805 Video Distribution Amplifier 7-9
  - CENTRAL DYNAMICS 821 Audio Distribution Amplifier 7-6
  - Video Distribution Amplifier 7-2
  - VIDEOTEK APM-800 Stereo Audio Monitor 7-15
  - VIDEOTEK APM-8RS Audio Monitor 7-12
- National Television Standards Committee, see NTSC
- Network, see Satellite Broadcast Network
- Notational Conventions 1-5
  - Equipment Keys and Buttons 1-5
  - Symbols 1-5
- NTSC 6-2
- PACE MSP 200 Multi-Satellite Positioner 5-8
  - Changing Antenna Position of a Satellite Number 5-29
  - Clearing Memory 5-31
  - Configurations 5-10
  - East-West Limits, Adjusting 5-16
  - Features 5-8
  - Front Panel 5-11
  - Normal Mode 5-27
  - Operational Modes 5-10
  - Polarizer Circuitry 5-9
  - Recovering Satellite Numbers After “Err” Message 5-31
  - Recovering Satellite Numbers After Power Failure 5-30
  - Remote Control Handset 5-12
  - Satellite Numbers 5-16, 5-17
  - Setting up Satellite Numbers (positioners without polarizer control) 5-24
  - Setting up Satellite Numbers and Polarization Values (positioners with polarizer control) 5-17
  - Standby Mode 5-15
  - System Connections 5-9
  - Warning Messages 5-31
- PAL 6-2
- PANSAT AP-3000 / AP-3000E Antenna Positioner 5-33
  - Actuator Resynchronization 5-39
  - Clearing Memory 5-37
  - East-West Limits, Setting 5-37

***Index***

---

- Features 5-34
- Front Panel Indicators 5-34
- Lock-Out, Parental 5-39
- Programming 5-37
- Rear Panel Connectors 5-35
- Remote Control (3000I), Optional 5-40
- Specifications 5-33
- Storing Satellite Locations 5-38
- Troubleshooting 5-41
- PANSAT AP-600 Antenna Positioner 5-42
  - Actuator Resynchronization 5-49
  - Clearing Memory 5-47
  - East-West Limits, Setting 5-47
  - Features 5-43
  - Front Panel Indicators 5-43
  - LED Functions 5-43
  - Lock-Out, Parental 5-49
  - Programming 5-47
  - Rear Panel Connections 5-45
  - Recalling Satellites 5-48
  - Remote Control 5-44
  - Specifications 5-42
  - Storing Satellite Locations 5-48
- Paraclipse Antenna 3-11
- Phase Alteration by Line, see PAL
- Positioners/Trackers 5-2
  - HOUSTON Tracker III Antenna Positioner 5-49
  - MANHATTAN SP 250 Satellite Positioner 5-8
  - MERRIMAC MS-1 Satellite Tracking Controller 5-49
  - PACE MSP 200 Multi-Satellite Positioner 5-8
  - PANSAT AP-3000 / AP-3000E Antenna Positioner 5-33
  - PANSAT AP-600 Antenna Positioner 5-42
  - Positioner Description 5-2
  - Terms 5-4
  - Tracker Description 5-3
- Post List with Satellites Appendix B
- Post List with Antenna Size Appendix C
- Prime focus 3-3
- Recording Broadcasts 8-2
- Satellite Broadcast Network 4-2
- Satellite Log Sheet, example 9-6

***Index***

---

Satellite Log Sheet, blank 9-11

SCIENTIFIC ATLANTA D9223 Digital Satellite Receiver 4-55

ALT -1 Mode 4-65

ALT-2 Mode 4-68

Commercial Decoder Status Menu 4-74

Factory Channel Reinitialization 4-72

Features 4-56

Frequency Settings, Default 4-80

Front Panel Functions 4-65

Front Panel Indicators 4-57

High Bit Error Rate (BER) 4-88

High Signal Level BER 4-89

Installer Menu 4-79

Keypad Functions 4-62

Lock Levels 4-71

Menu Functions 4-73

Modes of Operation 4-61

Receiver Characteristics 4-55

Service Menu 4-76

Signal Interference 4-87

Troubleshooting 4-85

SECAM 6-2

Séquence Couleur a Mémoire, see SECAM

Signal, see Analog Signal, Audio Signal, Digital Signal, Video Signal

SONY Porta-Pac Interactive Audio Package 8-6

Amplifier, Front Panel 8-6

Amplifier, Rear Panel 8-7

Cable Specifications 8-10

Components 8-6

Coordination 8-15

Hook-up 8-8

Interactive Program Preparation 8-14

Interface Box, Front Panel 8-7

Interface Box, Rear Panel 8-8

Tests 8-11

STANDARD COMMUNICATIONS MT620 Satellite Receiver 4-105

Features 4-105

Front Panel Indicators 4-106

Internal Switches 4-110

Rear Panel Controls and Connections 4-109

Specifications 4-106

***Index***

---

- STANDARD COMMUNICATIONS MT900 Satellite Receiver 4-93
  - CAD900A Demodulator (Option) 4-102
  - CAD930 Demodulator 4-100
  - Features 4-93
  - Front Panel Indicators 4-95
  - Internal Switches 4-103
  - Operations 4-96
  - Rear Panel Controls and Connections 4-97
  - Specifications 4-94
- Support Appendix A
- Symbols, see Notational Conventions
- System Receiver 4-1
  - Analog Component 4-2, 4-55
  - COMSTREAM ABR200 Audio Broadcast Receiver 4-9
  - Digital Component 4-3, 4-55
  - MASPRO System Receiver 4-119
  - SCIENTIFIC ATLANTA D9223 Digital Satellite Receiver 4-55
  - STANDARD COMMUNICATIONS MT620 Satellite Receiver 4-105
  - STANDARD COMMUNICATIONS MT900 Satellite Receiver 4-93
  - WEGENER Receiver 4-112
- Telesat Antenna 3-12
- Television and Film Service 2-2
- Television Receive Only, see TVRO
- Television Selection Guidelines 6-3
- Troubleshooting 10-2
  - Astronomical Signal Losses 10-6
  - COMSTREAM ABR200 Audio Broadcast Receiver 10-16
  - Environmental Hazards 10-6
  - Environmental Signal Losses 10-6
  - Equipment Connections 10-5
  - Failure, acquisition of new satellite 10-10
  - Failure, during operation 10-12
  - Failure, program change using same satellite 10-8
  - PANSAT AP-3000 / AP-3000E Antenna Positioner 10-31
  - Program Output, audio good, picture missing 10-14
  - Program Output, picture good, audio distorted or absent 10-13
  - Program Output, sound and picture good, but unrelated 10-14
  - SCIENTIFIC ATLANTA D9223 Digital Satellite Receiver 10-24
  - Site Housekeeping 10-5
  - Specific Components 10-17
  - System-Level Problems 10-5

***Index***

---

- Variations in System Configurations 10-14
- Weather Hazards 10-6
- TVRO 1-2, 2-2, 2-5
  - Components 2-5
  - Support Appendix A
  - System Functional Components, Figure 10.1 10-3
  - Tracking System 5-2
- United States Information Agency (USIA) 1-2, 2-2
- VCR Selection Guidelines 6-3
- Vertex Antenna 3-13
- Video Signal 4-2
- Videocassette Recorder Selection Guidelines 6-3
- VIDEOTEK APM-800 Stereo Audio Monitor 7-15
  - Features 7-16
  - Front Panel 7-15
  - Operations 7-18
  - Performance Tests 7-19
  - Rear Panel 7-16
  - Specifications 7-17
- VIDEOTEK APM-8RS Audio Monitor 7-12
  - Features 7-12
  - Front Panel 7-12
  - Operations 7-13
  - Specifications 7-13
- Video Transmission Standards 6-2
  - NTSC 6-2
  - PAL 6-2
  - SECAM 6-2
- Voice of America (VOA) 2-2
- WEGENER Receiver 4-112
  - Cable Connections 4-118
  - Demodulator Switch Settings 4-114
  - Features 4-112
  - TVRO System with Wegener Units, Figure 4.22 4-113
- WORLDNET 2-2
- WORLDNET Satellite Transmission 2-3